

WEEKLY SOIL MOISTURE LOSS IN INCHES (Estimated Crop Evapotranspiration or ET <sub>c</sub> ) 03/19/21 through 03/25/21												
Crops (Leafout Date)	#148 Merced				#39 Parlier				#258 Lemon Cove			
	3/19 - 3/25	Accum'd	3/26 - 4/1		3/19 - 3/25	Accum'd	3/26 - 4/1		3/19 - 3/25	Accum'd	3/26 - 4/1	
	Water	Seasonal	Estimated		Water	Seasonal	Estimated		Water	Seasonal	Estimated	
	Use	Water Use	ETc		Use	Water Use	ETc		Use	Water Use	ETc	
Almonds (3/5) *	0.61	1.37	0.65		0.56	1.44	0.69		0.48	1.33	0.66	
Pistachio (NA) * **	0.00	0.00	0.00		0.00	0.00	0.00		0.00	0.00	0.00	
Citrus (2/1)	0.68	3.92	0.71		0.61	3.89	0.75		0.52	3.62	0.71	
Raisin Grapes (3/12) (11 ft. row spacing)	0.06	0.06	0.07		0.06	0.09	0.07		0.05	0.08	0.07	
Winegrapes (3/12 ) (10 ft. spacing on California Sprawl Trellis)	0.13	0.19	0.14		0.11	0.19	0.14		0.10	0.18	0.14	
Walnuts (NA)	0.00	0.00	0.00		0.00	0.00	0.00		0.00	0.00	0.00	
Stone Fruit (3/10 )	0.20	0.40	0.28		0.18	0.41	0.28		0.17	0.38	0.28	
Past 7 days precipitation (inches)	0.00				0.04				0.17			
Accumulated precipitation (inches) (1/1/2021)	5.54				3.48				3.90			
Dates in parentheses above, indicate leaf out or starting date for ET accumulation for the specific crop												
* Estimates are for orchard floor conditions where vegetation is managed by some combination of strip applications of herbicides, frequent mowing or tillage, and by mid and late season shading and water stress. Weekly estimates of soil moisture loss can be as much as 25 percent higher in orchards where cover crops are planted and managed more intensively for maximum growth.												
** Very vigorous, non-salt affected peak season pistachio Kc can be as high as 1.19 – resulting in about 8% greater water use than shown in these tables.												
PAST WEEKLY APPLIED WATER IN INCHES, ADJUSTED FOR EFFICIENCY <sup>1</sup>												
Crops	#148 Merced				#39 Parlier				#258 Lemon Cove			
System Efficiency >>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds (3/5)	0.9	0.8	0.7	0.6	0.9	0.7	0.7	0.6	0.7	0.6	0.6	0.5
Pistachio (NA)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Citrus (2/1)	1.0	0.0	0.8	0.7	0.9	0.8	0.7	0.6	0.8	0.7	0.6	0.5
Raisin Grapes (3/12) (11 ft. row spacing)***	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Winegrapes (3/12 ) (10 ft. spacing on California Sprawl Trellis) ***	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1
Walnuts (NA)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Stone Fruit (3/10 )	0.3	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.2
<sup>1</sup> The amount of water required by a specific irrigation system to satisfy evapotranspiration. Typical ranges in irrigation system efficiency are: Drip, 80%-95%; Micro-sprinkler, 80%-90%; Sprinkler, 70%-85%; and Border-furrow, 50%-75%.												
PAST WEEKLY APPLIED WATER IN GALLON PER TREE OR VINE												
Crops	#148 Merced				#39 Parlier				#258 Lemon Cove			
Almonds 115 Trees/A	213	189	165	142	213	165	165	142	165	142	142	118
Pistachio 106 Trees/A	0	0	0	0	0	0	0	0	0	0	0	0
Citrus 110 Trees/A	247	0	197	173	222	197	173	148	197	173	148	123
Raisin Grapes 566 Vines/A	5	5	5	5	5	5	5	5	5	5	5	5
Winegrapes 622 Vines/A	9	9	9	4	9	4	4	4	9	4	4	4
Walnuts 76 Trees/A	0	0	0	0	0	0	0	0	0	0	0	0
Stonefruit 172 Trees/A	47	47	32	32	47	32	32	32	47	32	32	32
For further information concerning all counties receiving this report, contact the Fresno Co. Farm Advisor's office at (559) 241-7526.												

**WEEKLY SOIL MOISTURE LOSS IN INCHES**

(Estimated Crop Evapotranspiration or ET<sub>c</sub>)

03/19/21 through 03/25/21

Crops (Leafout Date)	#124 Panoche			#2 Five Points			#15 Stratford		
	3/19 - 3/25 Water Use	Accum'd Seasonal Water Use	3/26 - 4/1 Estimated ETc	3/19 - 3/25 Water Use	Accum'd Seasonal Water Use	3/26 - 4/1 Estimated ETc	3/19 - 3/25 Water Use	Accum'd Seasonal Water Use	3/26 - 4/1 Estimated ETc
Almonds (3/5) *	0.56	1.25	0.77	0.57	1.41	0.81	0.57	1.38	0.80
Pistachio (NA) * **	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Citrus (2/1)	0.62	4.26	0.81	0.63	4.59	0.88	0.62	4.37	0.87
Raisin Grapes (3/12 ) (11 ft. row spacing)	0.05	0.06	0.07	0.05	0.09	0.07	0.05	0.08	0.07
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	0.11	0.18	0.14	0.11	0.19	0.14	0.11	0.20	0.14
Walnuts (NA)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stone Fruit (3/10)	0.18	0.37	0.35	0.18	0.42	0.35	0.17	0.39	0.35
<b>Past 7 days precipitation (inches)</b>	0.00			0.00			0.00		
<b>Accumulated precipitation (inches) (1/1/2021)</b>	3.80			4.51			2.97		

Dates in parentheses above, indicate leaf out or starting date for ET accumulation for the specific crop

\* Estimates are for orchard floor conditions where vegetation is managed by some combination of strip applications of herbicides, frequent mowing or tillage, and by mid and late season shading and water stress. Weekly estimates of soil moisture loss can be as much as 25 percent higher in orchards where cover crops are planted and managed more intensively for maximum growth.

\*\* Very vigorous, non-salt affected peak season pistachio Kc can be as high as 1.19 – resulting in about 8% greater water use than shown in these tables.

**PAST WEEKLY APPLIED WATER IN INCHES, ADJUSTED FOR EFFICIENCY <sup>1</sup>**

Crops	#124 Panoche				#2 Five Points				#15 Stratford			
	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
System Efficiency >>>	65%	75%	85%	95%	65%	75%	85%	95%	65%	75%	85%	95%
Almonds (3/5)	0.9	0.7	0.7	0.6	0.9	0.8	0.7	0.6	0.9	0.8	0.7	0.6
Pistachio (NA)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Citrus (2/1)	1.0	0.8	0.7	0.7	1.0	0.8	0.7	0.7	1.0	0.8	0.7	0.7
Raisin Grapes (3/12 ) (11 ft. row spacing)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Winegrapes (3/12) (10 ft. spacing on California Sprawl Trellis)	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1
Walnuts (NA)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Stone Fruit (3/10)	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.2

<sup>1</sup> The amount of water required by a specific irrigation system to satisfy evapotranspiration. Typical ranges in irrigation system efficiency are: Drip, 80%-95%; Micro-sprinkler, 80%-90%; Sprinkler, 70%-85%; and Border-furrow, 50%-75%.

**PAST WEEKLY APPLIED WATER IN GALLON PER TREE OR VINE**

Crops	#124 Panoche				#2 Five Points				#15 Stratford			
	213	165	165	142	213	189	165	142	213	189	165	142
Almonds 115 Trees/A	213	165	165	142	213	189	165	142	213	189	165	142
Pistachio 106 Trees/A	0	0	0	0	0	0	0	0	0	0	0	0
Citrus 110 Trees/A	247	197	173	173	247	197	173	173	247	197	173	173
Raisin Grapes 566 Vines/A	5	5	5	5	5	5	5	5	5	5	5	5
Winegrapes 622 Vines/A	9	4	4	4	9	4	4	4	9	4	4	4
Walnuts 76 Trees/A	0	0	0	0	0	0	0	0	0	0	0	0
Stonefruit 172 Trees/A	47	32	32	32	47	32	32	32	47	32	32	32

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